BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Roads, Drains and Culverts at Dasarahalli Bande and Maruthi layout in ward No. 06 Byatarayanapura Sub Division

			Estimate Cost Rs.					6000000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in Hard Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/	cum							
	Desilting of Drain								
	Thimmaraiappa House Road		1	102.00	0.65	0.60	39.78		
			1	45.00	0.60	0.35	9.45		
	1st Cross Ayyappa Layout		1	50.00	0.40	0.35	7.00		
	2nd Cross		1	38.00	0.40	0.35	5.32		
							61.55	86.92	**5350.00**
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	**86.92**							
2	KSRRB 300-1. Earth work excavation by manual means in Hard Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/ Item No. 19.2/ PWD SR 2015-16	Cum							
	For Flaging Course Drain								
	Thimmaraiappa House Road		2	102.00	0.25	0.60	30.60		
			2	45.00	0.25	0.30	6.75		
	1st Cross Ayyappa Layout		2	50.00	0.25	0.30	7.50		
	2nd Cross		2	38.00	0.25	0.30	5.70		
	Culverts Maruthi Layout Surrounding area		5	6.20	2.10	1.20	78.12		
							128.67	115.56	**14869.00**
	Basic Rate	107.00							
	Area Weightage @ 8%	8.56							
	Total	**115.56**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2016-	Cum							
	For Raising Course Drain								
	Thimmaraiappa House Road		2	102.00	0.25	0.15	7.65		
			2	45.00	0.25	0.15	3.38		
	1st Cross Ayyappa Layout		2	50.00	0.25	0.15	3.75		
	2nd Cross		2	38.00	0.25	0.15	2.85		
	For Concrete Road								
	Thimmaraiappa House Road		1	58.00	2.40	0.15	20.88		
	Manju House Road		1	18.00	2.50	0.15	6.75		
	Manju House Road		1	22.00	1.50	0.15	4.95		
			1	23.00	2.00	0.15	6.90		
			1	39.00	2.00	0.15	11.70		
			1	29.00	3.00	0.15	13.05		
	Shilpa house Road		1	6.00	3.00	0.15	2.70		
			1	21.00	2.70	0.15	8.51		
			1	6.40	2.70	0.15	2.59		
			1	25.00	2.60	0.15	9.75		
	Dasarahalli BBMP Office Back Side Road		1	17.00	4.70	0.15	11.99		
			1	22.00	8.50	0.15	28.05		
			1	13.60	4.70	0.15	9.59		
			1	50.00	3.00	0.15	22.50		
	Ayyappa layout 2nd Cross		1	90.00	5.00	0.15	67.50		
			1	168.00	5.00	0.15	126.00		
	Culverts Maruthi Layout Surrounding area		5	6.20	2.10	0.15	9.77		
							380.79	5159.02	**1964503.00**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
4	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2016-17	cum							
	Culverts Maruthi Layout Surrounding area		5X2	6.20	0.60	0.45	16.74		
							16.74	4438.22	**74296.00**
	Basic Rate	4187.00							
	Area Weightage @ 6%	251.22							
	Total	**4438.22**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2016-17	Sqm							
	Culverts Maruthi Layout Surrounding area		5X2	6.20	0.50	0.45	13.95		
	For SSM Drain Dasarahalli Colony Raising Course		2	45.00	0.45	0.20	8.10		
							22.05	**5305.30**	**116982.00**
	Basic Rate	5005.00							
	Area Weightage @ 6%	300.30							
	Total	**5305.30**							
6	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2016-17	Sqm							
	Culverts Maruthi Layout Surrounding area		5	6.20	0.60		18.60		
	For Sides		5X2	6.20	0.23		14.26		
			5X2	1.65	0.23		3.80		
							36.66	**271.36**	**9947.00**
	Basic Rate	**256.00**							
	Area Weightage @ 6%	15.36							
	Total	**271.36**							
7	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2016-17	cum							
	Culverts Maruthi Layout Surrounding area		5X2	6.20	0.50	0.10	3.10		
	Vent Bed		5	6.20	0.60	0.10	1.86		
	Vent Concrete								
	Thimmaraiappa House Road		1	102.00	0.65	0.20	13.26		
			1	45.00	0.60	0.15	4.05		
	Dasarahalli Colony SSM Coaping		1	120.00	0.60	0.20	14.40		
	Concrete Filling		2	102.00	0.30	0.20	12.24		
	For Raising Course Drain Coaping								
	Thimmaraiappa House Road		1X2	102.00	0.20	0.10	4.08		
			1X2	45.00	0.20	0.10	1.80		
	1st Cross Ayyappa Layout		1X2	50.00	0.20	0.10	2.00		
	2nd Cross		1X2	38.00	0.20	0.10	1.52		
	Dasarahalli Colony SSM Coaping		1X2	120.00	0.45	0.10	10.80		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							69.11	5598.92	**386941.00**
	Basic Rate	5282.00							
	Area Weightage @ 6%	316.92							
	Total	**5598.92**							
8	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2016-17	Sqm							
	Culverts Maruthi Layout Surrounding area		5X2	6.20		0.50	31.00		
							31.00	102.82	**3187.00**
	Basic Rate	97.00							
	Area Weightage @ 6%	5.82							
	Total	**102.82**							
9	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	**Cum**							
	Culverts Maruthi Layout Surrounding area		5	6.20	1.80	0.23	12.83		
							12.83	6371.66	**81774.00**
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							
10	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR	**Qtl**							
	0.95Ton/Cum		0.095	12.83			**1.22**	64243.42	**78328.00**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 24/ Item No. 5.27/ PWD SR 2016-17	Sqm							
	For Raising Course Drain								
	Thimmaraiappa House Road		1X2	102.00		0.80	163.20		
			1X2	45.00		0.40	36.00		
	1st Cross Ayyappa Layout		1X2	50.00		0.40	40.00		
	2nd Cross		1X2	38.00		0.40	30.40		
							269.60	993.22	**267772.00**
	Basic Rate	937.00							
	Area Weightage @ 6%	56.22							
	Total	**993.22**							
12	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							
	For Raising Course Drain								
	Thimmaraiappa House Road		1	102.00	0.90		91.80		
			1	45.00	1.20		54.00		
	1st Cross Ayyappa Layout		1	50.00	0.90		45.00		
	2nd Cross		1	38.00	0.90		34.20		
							225.00	1856.67	**417751.00**
	Data Rate	**1856.67**							
13	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and secondary beams. Page No. 18/ Item No. 4.48/ PWD SR 2016-17	Cum							
	Thimmaraiappa House Road		1	58.00	2.40	0.15	20.88		
	Manju House Road		1	18.00	2.50	0.10	4.50		
	Manju House Road		1	22.00	1.50	0.10	3.30		
			1	23.00	2.00	0.10	4.60		
			1	39.00	2.00	0.10	7.80		
			1	29.00	3.00	0.10	8.70		
	Shilpa house Road		1	6.00	3.00	0.10	1.80		
			1	21.00	2.70	0.10	5.67		
			1	6.40	2.70	0.10	1.73		
			1	25.00	2.60	0.10	6.50		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Dasarahalli BBMP Office Back Side Road		1	17.00	4.70	0.10	7.99		
			1	22.00	8.50	0.10	18.70		
			1	13.60	4.70	0.10	6.39		
			1	50.00	3.00	0.10	15.00		
	Ayyappa Layout 2nd Cross		1	90.00	5.00	0.10	45.00		
			1	168.00	5.00	0.10	84.00		
							242.56	6231.74	**1511571.00**
	Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
14	Providing groove cutting for Concrete pavement width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.(Page No 178., I.No.22.8 of PWD S.R 2016-17	Rmtr							
	Thimmaraiappa House Road		15	2.40			34.80		
	Manju House Road		5	2.50			11.25		
	Manju House Road		6	1.50			8.25		
			6	2.00			11.50		
			10	2.00			19.50		
			7	3.00			21.75		
	Shilpa house Road		2	3.00			4.50		
			5	2.70			14.18		
			2	2.70			4.32		
			6	2.60			16.25		
	Dasarahalli BBMP Office Back Side Road		4	4.70			19.98		
			6	8.50			46.75		
			3	4.70			15.98		
			13	3.00			37.50		
			23	5.00			112.50		
			35	5.00			175.00		
							554.00	121.90	**67533.00**
	Basic Rate	115.00							
	Area Weightage @ 6%	6.90							
	Total	**121.90**							
15	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift No. 171/ Item No. 22.7/ PWD SR 2016-17	Sqm							
	Thimmaraiappa House Road		1	58.00	2.40		139.20		
	Manju House Road		1	18.00	2.50		45.00		
	Manju House Road		1	22.00	1.50		33.00		
			1	23.00	2.00		46.00		
			1	39.00	2.00		78.00		
			1	29.00	3.00		87.00		
	Shilpa house Road		1	6.00	3.00		18.00		
			1	21.00	2.70		56.70		
			1	6.40	2.70		17.28		
			1	25.00	2.60		65.00		
	Dasarahalli BBMP Office Back Side Road		1	17.00	4.70		79.90		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	22.00	8.50		187.00		
			1	13.60	4.70		63.92		
			1	50.00	3.00		150.00		
	Culverts		1	90.00	5.00		450.00		
			1	168.00	5.00		840.00		
							2356.00	95.40	**224762.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
32	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.3, PWD	Cum							
			1	194.00	0.90	0.90	**157.14**		
							157.14	223.66	**35146.00**
	Basic Rate	189							
	6% area weightage	11.34							
	Total	200.34							
33	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.2,	Mtr							
			1	194.00			**194.00**		
							194.00	644.48	**125029.00**
	Basic Rate	608.00							
	6% area weightage	**36.48**							
	Total	644.48							
34	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 16-17)	Cum							
			1	194.00	0.60	0.75	**87.30**		
							87.30	59.36	**5182.00**
	Basic Rate	76.00							
	6% area weightage	**4.56**							
	Total	80.56							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
16	ead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1				190.22		
							190.22	73.12	13909.00
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2015-16 (P.118/I.17.1) For loading	68.00							
	Total	**73.12**							
							Grand Total		5404832.00
17	For 10% KRIDL Charges								540483.00
18	For 1% Labour Cess								54048.00
19	Miscesallaneous Charges	L/S							637.00
									6000000.00

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 06(Thanisandra)

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division
ಬ.ಬ.ಮಂ.ಪ., ಬೆಂಗಳೂರು-24

ADMINISTRATIVE APPROVAL
Accorded For Rs Sixty lakhs only
Head of Ac P-3111
Div. Ref. No. 196/17-18 Date 24/02/18
AE
EE(BTP) 24/02

Technical Sanction
Accorded For Sixty lakhs only
Head of A/C. P3111
CER NO : 799/17-18 Dt. 26.02.18
TA
CE (YNK)